

PUBLIC NOTICE

APPLICANT: TDOT **PERMIT APPLICATION:** NRS #06.054
505 Deadrick Street
Suite 900 James K Polk Bldg.
Nashville, TN 37243-0339
(615) 253-2477

LOCATION: SR-264 at Reynolds Branch, Log Mile 1.93
Site Lat.36.0697° Long. -85.9008°
DeKalb County

WATERSHED DESCRIPTION: The project is located in the Caney Fork Watershed (HUC 05130108) draining approximately 1,771 square miles and emptying into the Cumberland River. Land use surrounding the project area is primarily agricultural. Two streams, a spring, and 0.013-acres of wetland will be impacted by this project. An unnamed tributary to Reynolds Branch (Stream 1) with grass and shrub canopy begins from Spring 1, flows overland approximately 95 ft creating the wetland before flowing into Reynolds Branch. This stream does not have a defined channel. Stream 2, Reynolds Branch, is a perennial stream with channel depth of 1-4 ft and channel width of 5-12'. The substrate is gravel on bedrock. Reynolds Branch flows into Helton Creek neither have been assessed with regard to supporting their designated uses. USGS Topo Quad: Liberty, TN (322 SW)

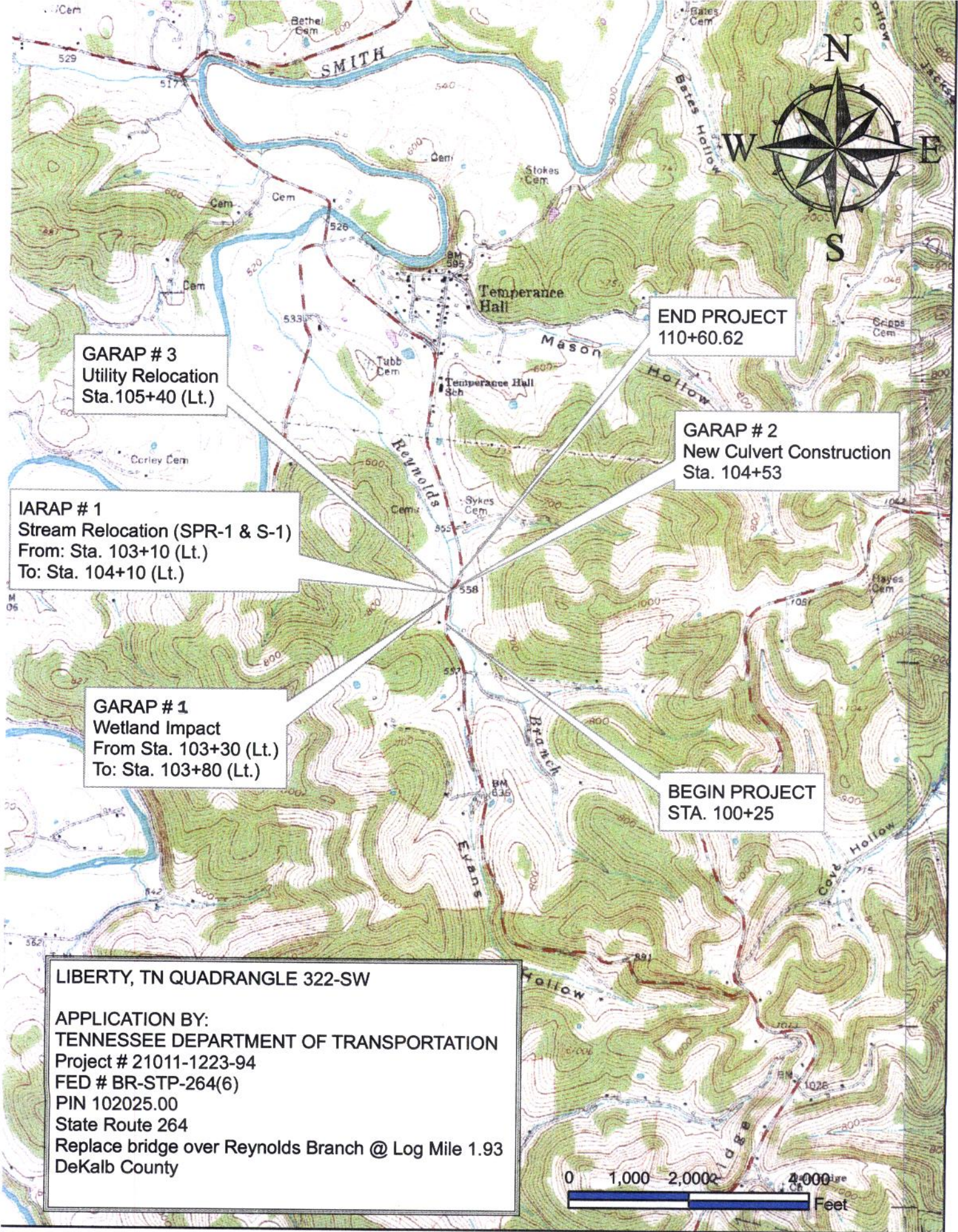
PROJECT DESCRIPTION: This application is for aquatic resource alterations along a 0.196-mile segment of State Route 264 beginning at log mile 1.93. SR-264 is being widening and slightly realigned at this location.

Proposed for Stream 1 is a relocation. Spring flow is to be captured using 32" x 32" square spring drain box and diverted into a proposed 165 ft open channel. The canopy is to be restored by planting shrubs. The wetland will be permanently filled. Wetland mitigation is not required because the Division considers the wetland impacts to be minimis.

For Reynolds Branch, the existing span bridge will be removed and replaced with a 80 ft 2 barrel box bridge, the inside diameter of each box is 16' x 6'. To avoid over widening the existing channel, flow will be through the left descending (west) box with the right descending box (east) for overflow during high water conditions. Also proposed is a water line downstream (north) of the proposed bridge. The existing water line is to be abandoned in place.

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the Division has determined that the proposed activity **will not** result in degradation to the streams described above.

PERMIT COORDINATOR: Judy Manners



GARAP # 3
Utility Relocation
Sta. 105+40 (Lt.)

IARAP # 1
Stream Relocation (SPR-1 & S-1)
From: Sta. 103+10 (Lt.)
To: Sta. 104+10 (Lt.)

GARAP # 1
Wetland Impact
From Sta. 103+30 (Lt.)
To: Sta. 103+80 (Lt.)

END PROJECT
110+60.62

GARAP # 2
New Culvert Construction
Sta. 104+53

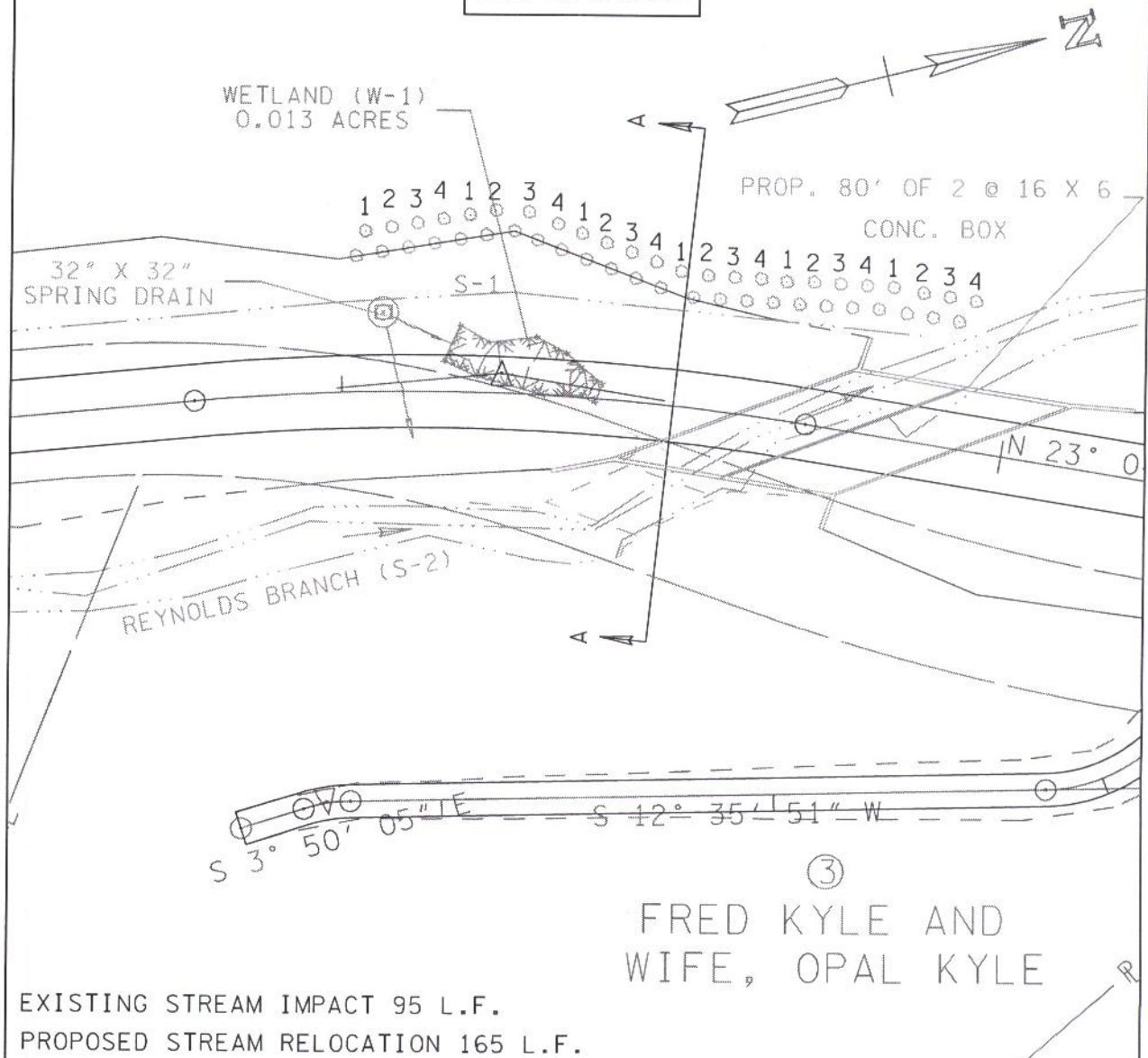
BEGIN PROJECT
STA. 100+25

LIBERTY, TN QUADRANGLE 322-SW

APPLICATION BY:
TENNESSEE DEPARTMENT OF TRANSPORTATION
Project # 21011-1223-94
FED # BR-STP-264(6)
PIN 102025.00
State Route 264
Replace bridge over Reynolds Branch @ Log Mile 1.93
DeKalb County



Permit Sketch



EXISTING STREAM IMPACT 95 L.F.
PROPOSED STREAM RELOCATION 165 L.F.

FRED KYLE AND
WIFE, OPAL KYLE

PROPOSED PLAN VIEW - LOCATION
SHOWING STREAM RELOCATION

LEGEND

— STREAM FLOW IN EXISTING CHANNEL

- 1 ○ SWEETSHRUB (CALYCANTHUS FLORIDUS)
- 2 ○ BUTTONBUSH (CEPHALANTHUS OCCIDENTALIS)
- 3 ○ SILKY DOGWOOD (CORNUS AMOMUM)
- 4 ○ OAKLEAF HYDRANGEA (HYDRANGEA QUERCIFOLIA)

0 25 50 75

APPLICATION BY:

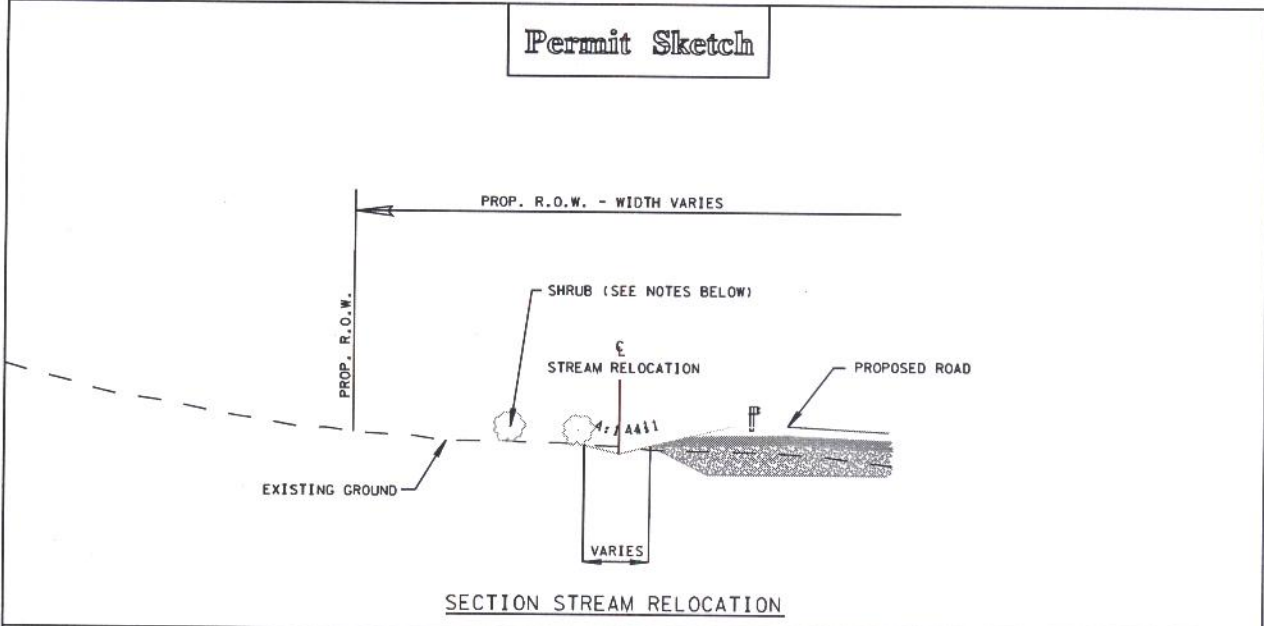
TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT No. 21011-1223-94
PIN NO. 102025.00
S.R. 264 BRIDGE AND APPROACHES OVER
REYNOLDS BRANCH L.M. 1.93
DEKALB COUNTY

DATE: 02/09/06

REVISED: 02/09/06

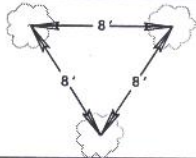
SHEET 1 OF 4

Permit Sketch

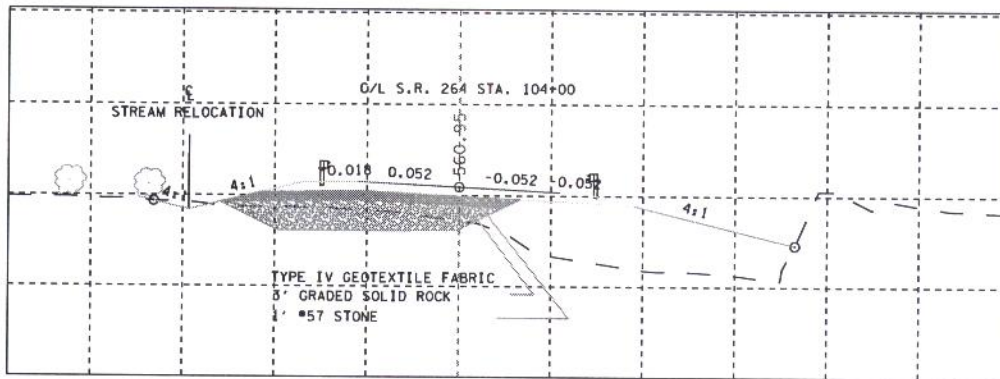


SECTION STREAM RELOCATION

802-01.01	SWEETSHRUB (CALYCANTHUS FLORIDUS)	EACH	12
802-01.02	BUTTONBUSH (CEPHALANTHUS OCCIDENTALIS)	EACH	12
802-01.03	SILKY DOGWOOD (CORNUS AMOMUM)	EACH	12
802-01.04	OAKLEAF HYDRANGEA (HYDRANGEA QUERCIFOLIA)	EACH	12



PLAN VIEW OF TYPICAL SHRUB PLACEMENT
PATTERN TO BE REPEATED AS NECESSARY



SECTION A - A

- 1.) ONE ROW OF SHRUBS SHALL BE PROVIDED IF SPACE IS LIMITED.
- 2.) NO SUBSTITUTIONS FOR ANY OF THESE SPECIES WILL BE ACCEPTED WITHOUT WRITTEN PERMISSION FROM THE TDOT ENVIRONMENTAL PLANNING AND PERMITS DIVISION. NO CLONES OR CULTIVARS WILL BE ACCEPTED. ANY SHRUBS FOUND TO BE EITHER INCORRECT SPECIES, INCORRECTLY PLANTED, OR WHICH DO NOT SURVIVE, AT ANY TIME PRIOR TO TERMINATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE. STAKES AND WIRES WILL BE REMOVED IMMEDIATELY PRIOR TO CONTRACT TERMINATION.

APPLICATION BY:

TENNESSEE DEPARTMENT OF TRANSPORTATION

PROJECT No. 21011-1223-94

PIN_NO. 102025.00

S.R._264_BRIDGE_AND_APPROACHES_OVER

REYNOLDS_BRANCH_L.M.-1.93

DEKALB COUNTY

DATE: 02/09/06

REVISÉ: 02/09/06

SHEET 3 OF 4

- REV. 3-21-01, CHANGED PAY ITEM IN GENERAL NOTE 1
- REV. 7-29-97, CHANGED ASTM SPECIFICATION IN GENERAL NOTE 1

SPRING DRAIN BOX HEIGHT TABLE			
INSIDE DIAMETER (1" OF PIPE TYPE)	MINIMUM HEIGHT - (FEET)		
CORRUGATED METAL PIPE	3.17	2.96	3.08
POLYETHYLENE PIPE			
18			

- 1 DEPTH MEASUREMENT MADE FROM TOP OF SLAB TO OUTLET FLOW ELEVATION.
- 2 TO DETERMINE FLOOR OF SPRING DRAIN BOX ELEVATION, ADD PIPE WALL THICKNESS PLUS 1.5" TO THE ABOVE HEIGHT TABLE.

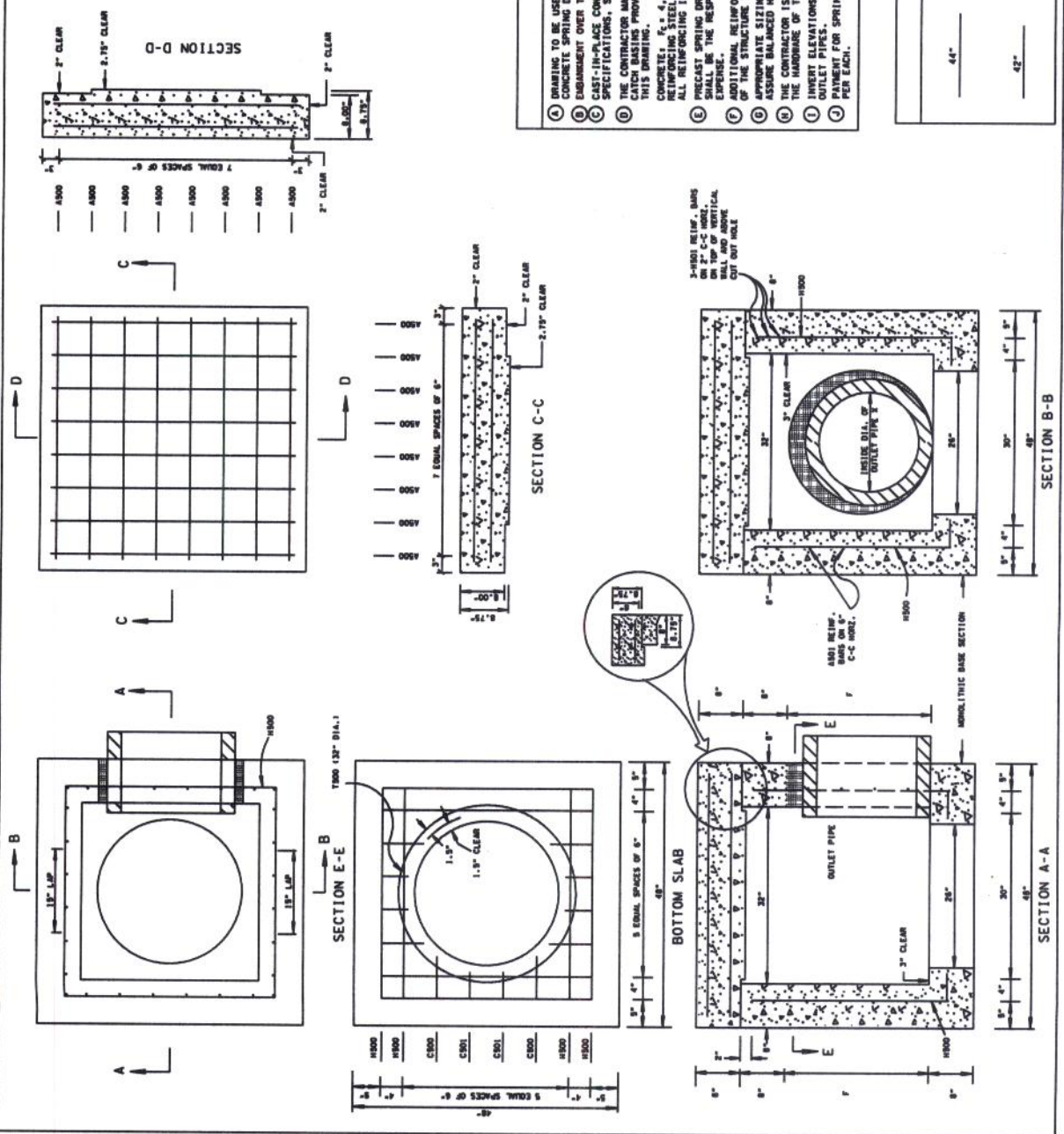
CUT-OUT HOLES FOR PIPES			
INSIDE DIAMETER (1" OF PIPE TYPE)	CONCRETE PIPE	POLYETHYLENE PIPE	
18	26	21	24

CUT-OUT HOLES FOR PRECAST STRUCTURES TO BE CURED OR FORMED IN PLACE TO ACCOMMODATE THE REINFORCING STEEL LIFT UNITS AT HIS OWN RISK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE REINFORCING STEEL LIFT UNITS. THE CONTRACTOR SHALL NOT BE PERMITTED TO REMOVE OR DAMAGE THE REINFORCING STEEL LIFT UNITS.

GENERAL NOTES

- 1 DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 1 CONCRETE SPRING DRAIN BOXES AND ALL PRECAST NO. 1 CONCRETE SPRING DRAIN BOXES.
- 2 ENLIGHTENMENT OVER THIS STRUCTURE MAY BE PLACED AT A DEPTH UP TO 50 FEET.
- 3 CAST-IN-PLACE CONCRETE SPRING DRAIN BOXES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS.
- 4 THE CONTRACTOR MAY WITH PERMISSION FROM THE ENGINEER SUBSTITUTE PRECAST CATCH BASINS FOR CAST-IN-PLACE CATCH BASINS PROVIDED THAT ALL PRECAST ELEMENTS MEET ASTM A615 (CURRENT EDITION) UNLESS SUPERSEDED BY THIS DRAWING.
- 5 CONCRETE, $f_c = 4,000$ POUNDS PER SQUARE INCH AT 28 DAYS.
- 6 REINFORCING STEEL, ASTM A615, $f_y = 60,000$ POUNDS PER SQUARE INCH.
- 7 ALL REINFORCING IS TO BE INSTALLED AS DETAILED ON THIS DRAWING.
- 8 PRECAST SPRING DRAIN BOX UNITS WHICH ARE DAMAGED DURING SHIPMENT OR INSTALLATION WILL BE REJECTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE DAMAGED SPRING DRAIN BOX UNITS AT HIS OWN RISK.
- 9 ADDITIONAL REINFORCING STEEL NECESSARY ABOVE THE CURED OR FORMED CUT-OUT HOLES TO MAINTAIN THE INTEGRITY OF THE STRUCTURE DURING HANDLING AND PLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10 APPROPRIATE SIZING AND LOCATION OF LIFTING DEVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 11 THE CONTRACTOR IS TO PATCH ALL LIFTING DEVICE HOLES AND PLACE A MINIMUM OF ONE (1) INCH OF COVER OVER THE HOLES.
- 12 THE HARDWARE OF THESE DEVICES ON BOTH TOP AND BOTTOM SURFACES.
- 13 JIMMY ELEVATIONS ARE TO BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO ACCOMMODATE INLET AND OUTLET PIPES.
- 14 PAYMENT FOR SPRING DRAIN BOX WILL BE MADE UNDER ITEM NUMBER 611-02-01 SPRING DRAIN BOX, TYPE 1 PER EACH.

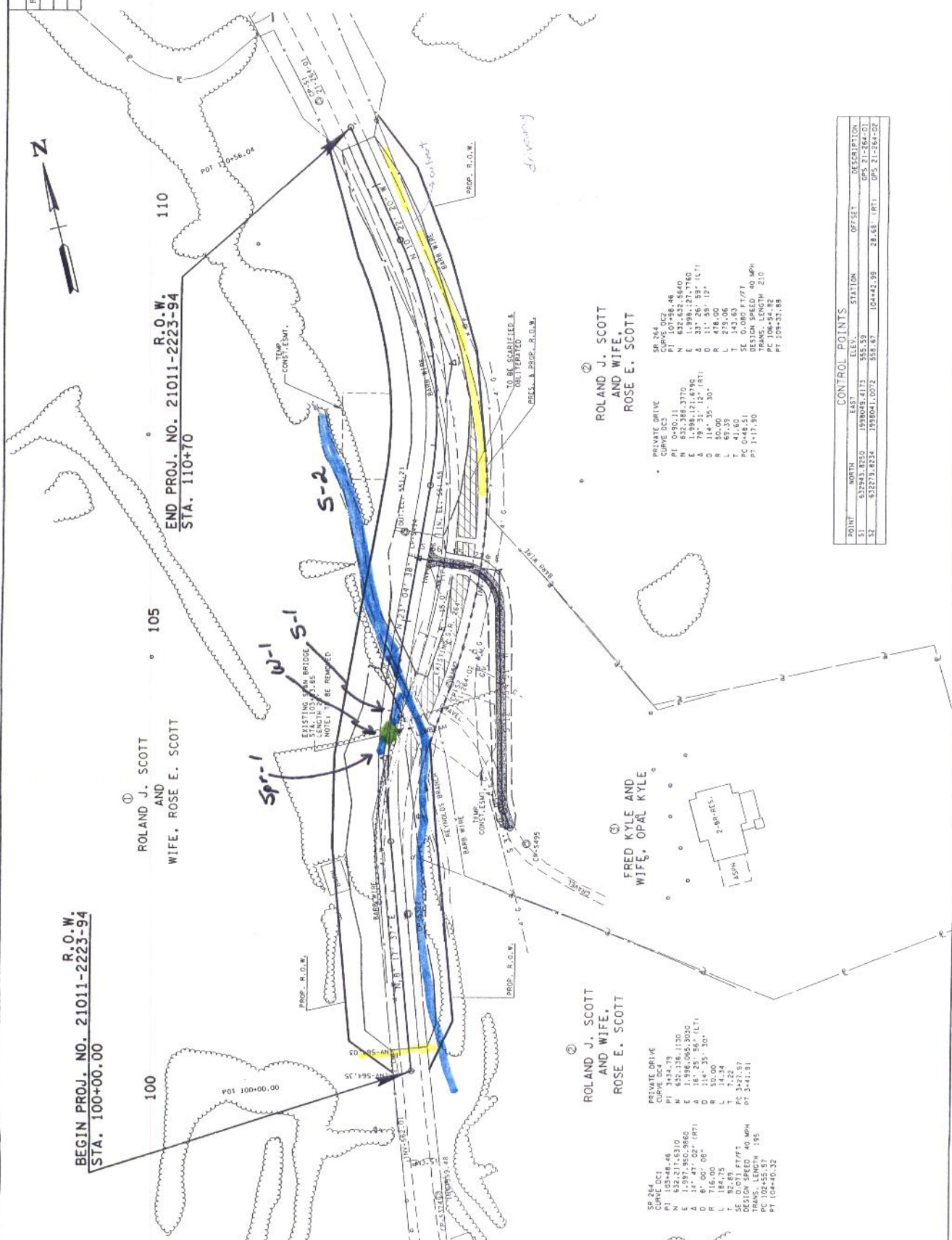
REINFORCING STEEL LEGEND
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BEGIN PROJ. NO. 21011-2223-94
STA. 100+00.00 R.O.W.

① ROLAND J. SCOTT
AND
WIFE, ROSE E. SCOTT

END PROJ. NO. 21011-2223-94
STA. 110+70 R.O.W.



② ROLAND J. SCOTT
AND WIFE,
ROSE E. SCOTT

PRIVATE DRIVE
CURVE DATA
PI 107+56.46
PT 107+56.46
N 107+56.46
E 107+56.46
A 107+56.46
D 107+56.46
L 107+56.46
T 107+56.46
PC 107+56.46
PT 107+56.46
DESIGN SPEED 40 MPH
TRANS. LENGTH 210
PT 107+56.46

② ROLAND J. SCOTT
AND WIFE,
ROSE E. SCOTT

PRIVATE DRIVE
CURVE DATA
PI 107+56.46
PT 107+56.46
N 107+56.46
E 107+56.46
A 107+56.46
D 107+56.46
L 107+56.46
T 107+56.46
PC 107+56.46
PT 107+56.46
DESIGN SPEED 40 MPH
TRANS. LENGTH 210
PT 107+56.46

③ FRED KYLE AND
WIFE, OPAL KYLE

COORDINATE VALUES ARE NAD 83
UNITS ARE IN FEET
HORIZONTAL SCALE 1"=40'
VERTICAL SCALE 1"=10'
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PRESENT LAYOUT
STA. 100+00 TO STA. 110+70
SCALE: 1"=40'

CONTROL POINTS		STATION	OFFSET	DESCRIPTION
POINT	NORTH	EAST		
51	632243.8750	1998048.4171	558.50	SPS 11-24-01
52	632273.8234	1998041.0072	558.67	SPS 11-24-02

DeKalb County: SR 264, Bridge and approaches over Reynolds Branch, LM 1.93
PE No. 21011-2223-94; PIN No. 102025.00
29 December 2004

Photo 1: Standing on bridge looking downstream (north) at Reynolds Branch (S-2)



Photo 2: Standing on bridge looking upstream (south) at Reynolds Branch (S-2)



Photo 3: Looking at source of spring (SPR-1) under hackberry tree



Photo 4: Standing at upstream end of wetland (W-1) looking upstream towards tributary to Reynolds Branch (S-1) and spring (SPR-1)

